

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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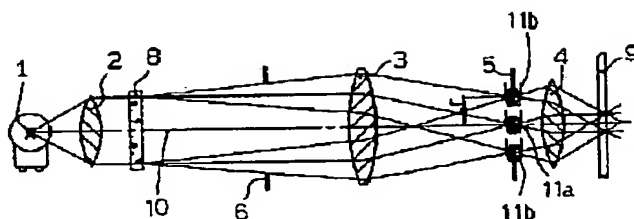
APPLICATION DATE : 30-08-91  
APPLICATION NUMBER : 03219651

APPLICANT : NIKON CORP;

INVENTOR : FUJINO TAKESHI;

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TITLE : KOHLER ILLUMINATION OPTICAL  
SYSTEM



**ABSTRACT :** PURPOSE: To illuminate a large area on a sample by providing a luminous flux dispersing means between a light source and a visual field stop and eliminating the variance of illumination to brightly illuminate the sample.

CONSTITUTION: A luminous flux dispersing filter 8 is provided in the optical path between a condenser lens 2 and a visual field stop 6. This filter 8 is provided in the optical path so that its center coincides with an optical axis 10, and the section of the luminous flux dispersing filter 8 in a prescribed plane (paper surface) including the optical axis 10 has the front face, where recessed and projecting arcs of the same size are alternately arranged, and the rear formed on the plane. Concave parts whose sections are recessed arcs and convex parts whose sections are projecting arcs are alternately formed like concentric circles on the front face. Adjacent recessed and projecting arcs are connected at the point where a reference circle of the recessed arc and that of the projecting arc come into contact with each other. Consequently, the sample is uniformly and brightly illuminated.

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